Model
i.Series® iUF126 Upright Ultra-Low Temperature Freezer

Specifications

Application, Rating and Electrical Data

Application	Storage of biological samples
Storage Volume	26cf (736L)
Storage Capacity	528 standard 2" (51mm) boxes
Temperature Range	-50ºC to -86ºC @ 32ºC (90ºF) Ambient
Electrical Power	208/230V 60Hz, 1 Phase
Maximum Current	11 FLA
Auto-Voltage Safeguard	Optional boost system
Building Supply Rating	15 amp dedicated ground circuit
Power Plug / Power Cord Length	NEMA 6-15 plug, 7.5ft (2286mm)
Certification / Agency Listing	QPS
Sound Pressure Level (dBA)	<70 dB
Indoor/Outdoor Use	Indoor use only
Application Environment	Non-corrosive, non-flammable, non-explosive, 15°C to 32°C (59°F to 90°F)
Lifetime of Product	10 years

Refrigeration System

Refrigeration System	Two Stage Cascade System
Compressor / Number	1.5 HP hermetic / 2
Condenser Type / Number	Air-cooled fin and tube / 1
Expansion Device	TXV valve - high stage Cap tube - low stage
Evaporator Type	Split, cold wall
Defrost Method	Manual
Refrigerant Charge	R601 natural refrigerant - low stage R508B nonflammable CFC/HCFC-free - low stage R404A nonflammable CFC/HCFC-free - high stage

Performance Data

Energy Consumption	19 kWhr/day at -80°C Setpoint
Uniformity	+/-5°C at -80°C Setpoint

Warranty

Rel.i™ (US/Canada)	5 years compressor, 2 years parts and labor
Outside US/Canada	Consult your local representative

Controller

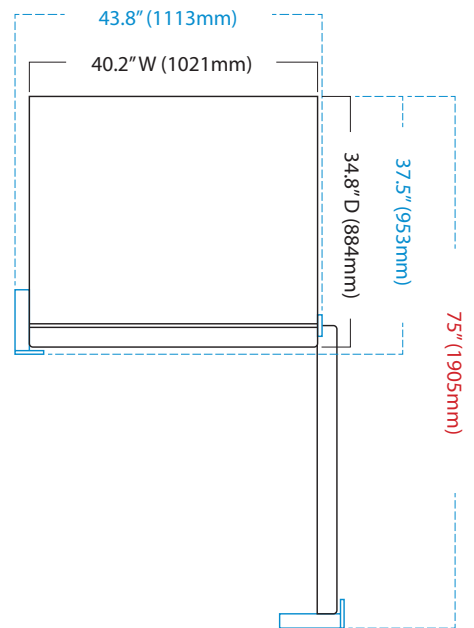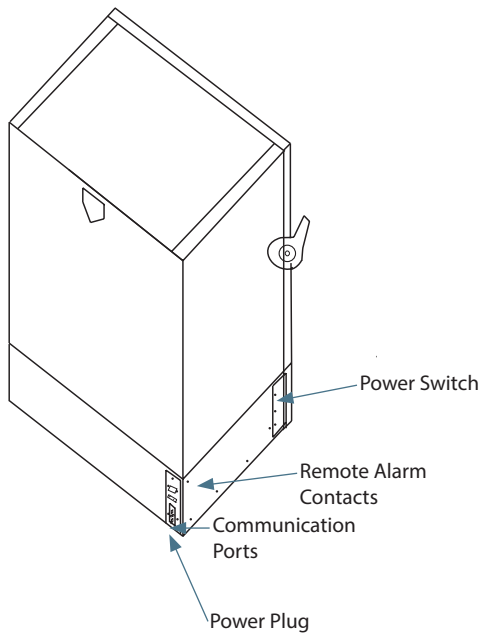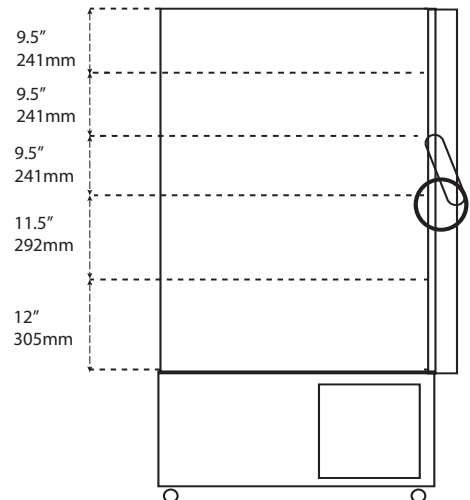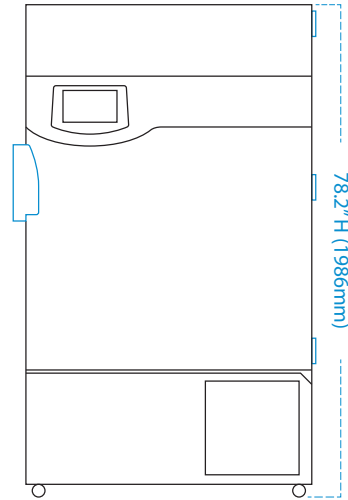|	
Interface	i.C³, eye-level, color touchscreen
Power Switch	On/Off with circuit breaker
Controller Type	Microprocessor with touchscreen input and display. Includes USB hub for data retrieval.
Security	Lockable door, PIN access control, password setpoints, padlock hasp
Compressor Safeguard	High ambient temperature warning, compressor and condenser over-temperature alarms
Control Sensor	RTD (Platinum) (1 ea)
Communication Ports	(1) RS232 Port (rear) and (1) USB Port (side of door-mounted user interface)
Warm / Cold Alarms	Fully adjustable
Event Log	All alarms, door openings, download via USB
Temperature Log	60 days, download via USB
Access Log	60 days, download via USB
Battery Back-up	20 hour display and alarm battery back-up for i.C³ touchscreen (12V, lead acid battery)

Dimensions and Construction

Interior (w x h x d) in (mm)	34.4 x 54.1 x 23.3 (874 x 1374 x 592)
Exterior (w x h x d) in (mm)	40.2 x 78.2 x 34.8 (1021 x 1986 x 884)
Exterior (w x h x d) in (mm) (Inc. handle, casters, hinges)	43.8 x 78.2 x 37.5 (1113 x 1986 x 953) Fits through standard 36" (914mm) doorway
Insulation	Premium Vacuum Insulated Panels
Door	1, solid
Access Ports	2, external
Perimeter Heater	Hot gas loop
Compartments & Inner Doors Shelves / Capacity (w x d) In (mm)	5 4 adjustable stainless steel / 160 lb (73 kg) max. cap. 33.9 x 21.9 / (862 x 557)
Casters / Legs	Standard / swivel, locking plus leveling legs
Net Weight	725 lb (328 kg)
Shipping Weight	828 lb (375 kg)
Options / Accessories	Chart Recorder, LN2 and CO2 back-up systems, -70°C factory preset, voltage boost system
Clearance Requirements	Allow 4" (102mm) behind unit Allow 8" (203mm) above unit

9.5"
241mm

9.5"
241mm

9.5"
241mm

11.5"
292mm

12"
305mm

78.2"H (1986mm)

43.8" (1113mm)

40.2" W (1021mm)

34.8" D (884mm)

37.5" (953mm)

75" (1905mm)

Power Switch

Remote Alarm
Contacts

Communication
Ports

Power Plug

Helmer Scientific | 14400 Bergen Boulevard | Noblesville, IN 46060 | USA
+1.317.773.9073 | www.helmerinc.com

Helmer
SCIENTIFIC